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L5 45 L3 AND L4

=> s plasmid or plasmids

10341 PLASMID
7747 PLASMIDS
L6 10851 PLASMID OR PLASMIDS

=> s l5 and l6

L7 44 L5 AND L6

=> d 1-44

1. 5,736,139, Apr. 7, 1998, Treatment of Clostridium difficile induced disease; John A. Kink, et al., 424/164.1, 167.1; 530/389.1, 389.5 [IMAGE AVAILABLE]

2. 5,726,044, Mar. 10, 1998, **Expression** and export technology of proteins as immunofusins; Kin-Ming Lo, et al., 435/69.7, 69.8, 70.1, 320.1, 328; 536/23.53 [IMAGE AVAILABLE]

3. 5,716,819, Feb. 10, 1998, Cloning and **expression** of T5 DNA polymerase reduced in 3'-to-5' exonuclease activity; Deb K. Chatterjee, 435/194, 196, 252.3, 254.11, 320.1, 325; 536/23.2, 24.1 [IMAGE AVAILABLE]

4. 5,700,678, Dec. 23, 1997, Protein disulfide-isomerase and production thereof; Kumao Toyoshima, et al., 435/233, 69.1, 91.4, 172.3, 252.33, 254.21, 320.1, 325; 536/23.2, 23.5 [IMAGE AVAILABLE]

5. 5,698,403, Dec. 16, 1997, Methods of detecting platelet-activating factor acetylhydrolase using antibodies; Lawrence S. Cousens, et al., 435/7.4, 7.1 [IMAGE AVAILABLE]

6. 5,686,412, Nov. 11, 1997, Protein kinases; Merl F. Hoekstra, 514/12; 424/94.5; 435/15, 194; 514/2 [IMAGE AVAILABLE]

7. 5,665,566, Sep. 9, 1997, Cloning of enterokinase and method of use; Edward R. LaVallie, 435/69.3; 424/94.63; 435/69.1, 252.3, 320.1; 536/23.2, 27.1 [IMAGE AVAILABLE]

8. 5,658,882, Aug. 19, 1997, Methods of inducting formation of tendon and/or ligament tissue comprising administering BMP-12, BMP-13, and/or MP-52; Anthony J. Celeste, et al., 514/12; 435/69.1, 252.3, 320.1, 375; 514/2, 8; 530/350, 399; 536/23.4, 23.5 [IMAGE AVAILABLE]

9. 5,656,431, Aug. 12, 1997, Platelet-activating factor acetylhydrolase; Lawrence S. Cousens, et al., 435/6, 172.1, 172.3, 197, 198; 536/23.1, 23.2, 23.5, 24.31 [IMAGE AVAILABLE]

10. 5,652,132, Jul. 29, 1997, Oxido reductase enzyme system obtainable from P. chrysogenum, the set of genes encoding the same and the use of oxido reductase enzyme systems or genes encoding the same for increasing

antibiotic production; Yair Aharonowitz, et al., 435/6, 172.3, 191, 252.3, 252.33, 252.35, 254.11, 325; 536/23.2 [IMAGE AVAILABLE]

11. 5,646,016, Jul. 8, 1997, Peptide and protein fusions to thioredoxin, thioredoxin-like molecules, and modified thioredoxin-like molecules; John McCoy, et al., 435/69.7, 172.3, 252.3, 254.11, 320.1, 325; 530/350, 413; 536/23.4 [IMAGE AVAILABLE]

12. 5,641,669, Jun. 24, 1997, Platelet-activating factor acetylhydrolase; Lawrence S. Cousens, et al., 435/195, 7.1, 7.2, 7.9; 514/2; 530/300, 388.1 [IMAGE AVAILABLE]

13. 5,639,635, Jun. 17, 1997, Process for bacterial production of polypeptides; John C. Joly, et al., 435/69.1; 536/23.5, 23.6, 23.7 [IMAGE AVAILABLE]

14. 5,639,608, Jun. 17, 1997, Method for sequencing DNA using a T7-type DNA polymerase and short oligonucleotide primers; Stanley Tabor, et al., 435/6, 91.2; 935/77 [IMAGE AVAILABLE]

15. 5,635,182, Jun. 3, 1997, Method of detecting ligand interactions; John M. McCoy, et al., 424/191.1, 93.2; 435/69.7, 172.3, 252.3, 252.31, 252.33, 254.11; 530/327, 330, 350; 536/23.1, 23.4; 935/79, 80 [IMAGE AVAILABLE]

16. 5,629,172, May 13, 1997, **Expression** of fusion polypeptides transported out of the cytoplasm without leader sequences; Desmond Mascarenhas, et al., 435/69.7, 69.1, 252.3, 320.1; 530/350; 536/23.4 [IMAGE AVAILABLE]

17. 5,605,801, Feb. 25, 1997, Methods of detecting lesions in the platelet-activating factor acetylhydrolase gene; Lawrence S. Cousens, et al., 435/6 [IMAGE AVAILABLE]

18. 5,591,618, Jan. 7, 1997, G protein-coupled receptor kinase GRK6; David Chantry, et al., 435/194, 6, 252.3, 320.1; 536/22.1, 23.1, 23.2, 23.5 [IMAGE AVAILABLE]

19. 5,589,582, Dec. 31, 1996, Polynucleotides en coding porcine cytokines; Robert J. Hawley, et al., 536/23.5; 435/91.1, 252.3, 320.1; 530/351; 536/23.51 [IMAGE AVAILABLE]

20. 5,578,466, Nov. 26, 1996, Recombinant co-**expression** system of protein disulfide isomerase gene, yeast receptor protein ERD2 gene and a foreign product polypeptide gene, and a process for producing the foreign polypeptide using such system; Toshiya Hayano, et al., 435/69.7, 69.1, 69.6, 254.2 [IMAGE AVAILABLE]

21. 5,563,046, Oct. 8, 1996, Fusion polypeptides and proteins; Desmond Mascarenhas, et al., 435/69.52, 69.4, 69.7, 252.3, 320.1; 530/350, 351, 399; 536/23.4 [IMAGE AVAILABLE]

22. 5,541,099, Jul. 30, 1996, Cloning and **expression** of T5 DNA polymerase reduced in 3'-to-5' exonuclease activity; Deb K. Chatterjee, 435/194, 172.3, 193 [IMAGE AVAILABLE]

23. 5,541,087, Jul. 30, 1996, **Expression** and export technology of proteins as immunofusins; Kin-Ming Lo, et al., 435/69.7, 69.8, 70.1, 252.3, 320.1, 355, 369; 530/344, 345, 387.3, 391.1, 391.7, 402; 536/23.1, 23.4, 23.53 [IMAGE AVAILABLE]

24. 5,534,407, Jul. 9, 1996, Method for nucleic acid hybridization using single-stranded DNA binding protein; Stanley Tabor, et al., 435/5, 6; 935/77, 78 [IMAGE AVAILABLE]

25. 5,532,151, Jul. 2, 1996, G protein-coupled receptor kinase GRK6; David Chantry, et al., 435/194, 6, 252.3, 320.1; 536/22.1, 23.1, 23.2, 23.5 [IMAGE AVAILABLE]

26. 5,460,810, Oct. 24, 1995, Method for maintaining gut epithelial cells by treatment with a cytokine such as interleukin 11; David A. Williams, et al., 424/85.1, 85.2; 514/867, 908 [IMAGE AVAILABLE]

27. 5,437,863, Aug. 1, 1995, Method of enhancing the growth of gut epithelial cells by administration of a cytokine such as interleukin II; David A. Williams, et al., 424/85.1, 85.2 [IMAGE AVAILABLE]

28. 5,434,079, Jul. 18, 1995, Apparatus and process for continuous in vitro synthesis of proteins; Bobak R. Mozayeni, 435/286.5; 210/321.75; 435/297.2; 935/88 [IMAGE AVAILABLE]

29. 5,382,660, Jan. 17, 1995, TcpG gene of vibrio cholerae; Ronald K. Taylor, et al., 536/23.2, 23.1, 23.7 [IMAGE AVAILABLE]

30. 5,328,839, Jul. 12, 1994, Oxido reductase enzyme system obtained from P. chrysogenum; Yair Aharonowitz, et al., 435/191, 189, 935 [IMAGE AVAILABLE]

31. 5,292,646, Mar. 8, 1994, Peptide and protein fusions to thioredoxin and thioredoxin-like molecules; John McCoy, et al., 435/69.7, 243, 252.3, 252.33, 254.11, 254.2, 320.1; 530/350; 536/23.4; 935/44, 47 [IMAGE AVAILABLE]

32. 5,270,181, Dec. 14, 1993, Peptide and protein fusions to thioredoxin and thioredoxin-like molecules; John McCoy, et al., 435/69.7, 243, 252.3, 252.33, 254.11, 320.1; 536/23.4; 935/10, 27, 66, 69, 72, 73 [IMAGE AVAILABLE]

33. 5,270,179, Dec. 14, 1993, Cloning and **expression** of T5 DNA polymerase reduced in 3'- to-5' exonuclease activity; Deb K. Chatterjee, 435/69.1, 69.7, 69.8, 172.3, 191, 193, 194, 252.3, 252.33, 320.1; 536/23.1, 23.2, 23.4, 23.72, 24.1, 24.2; 935/6, 14, 38, 72 [IMAGE AVAILABLE]

34. 5,266,466, Nov. 30, 1993, Method of using T7 DNA polymerase to label the 3' end of a DNA molecule; Stanley Tabor, et al., 435/91.5, 6, 172.1, 194; 935/17, 77 [IMAGE AVAILABLE]

35. 5,210,073, May 11, 1993, Method for treating cancer therapy radiation damage or arteriosclerosis using human ADF; Junji Yodoi, et al., 514/12, 2, 21, 824, 886, 917 [IMAGE AVAILABLE]

36. 5,187,098, Feb. 16, 1993, DNA encoding hybrid streptokinases with plasminogen fibrin binding domains; Horst Malke, et al., 435/320.1, 216, 217, 226; 536/23.2, 23.4 [IMAGE AVAILABLE]

37. 5,173,411, Dec. 22, 1992, Method for determining the nucleotide base sequence of a DNA molecule; Stanley Tabor, et al., 435/6, 91.2, 172.3; 436/501; 935/78 [IMAGE AVAILABLE]

38. 5,145,776, Sep. 8, 1992, Method of using T7 DNA polymerase to mutagenize and fill-in DNA; Stanley Tabor, et al., 435/91.5, 6, 172.1, 194; 935/17, 77 [IMAGE AVAILABLE]

39. 5,047,342, Sep. 10, 1991, Cloning and **expression** of T5 DNA polymerase; Deb K. Chatterjee, 435/194, 172.3, 239, 252.3, 252.33, 320.1; 530/826; 536/23.2 [IMAGE AVAILABLE]

40. 4,994,372, Feb. 19, 1991, DNA sequencing; Stanley Tabor, et al., 435/6, 91.2, 91.5, 91.51, 803; 436/501; 935/77, 78 [IMAGE AVAILABLE]

41. 4,946,786, Aug. 7, 1990, T7 DNA polymerase; Stanley Tabor, et al., 435/194, 172.3, 252.33, 320.1; 935/14, 29, 73 [IMAGE AVAILABLE]

42. 4,942,130, Jul. 17, 1990, T7 DNA polymerase; Stanley Tabor, et al., 435/194, 172.1, 172.3, 849; 536/23.2; 935/14, 29, 73 [IMAGE AVAILABLE]

43. 4,921,794, May 1, 1990, T7 DNA polymerase; Stanley Tabor, et al., 435/91.2, 172.3, 194, 320.1; 536/23.1, 24.33; 935/16, 17, 18 [IMAGE AVAILABLE]

44. 4,795,699, Jan. 3, 1989, T7 DNA polymerase; Stanley Tabor, et al., 435/5, 6, 172.3, 803, 810; 935/77, 78 [IMAGE AVAILABLE]

=> d 13 ab

US PAT NO: 5,639,635 [IMAGE AVAILABLE] L7: 13 of 44

ABSTRACT:
A process is provided for producing a heterologous polypeptide in bacteria, which process comprises:
(a) culturing bacterial cells, which cells comprise nucleic acid encoding a DsbA or DsbC protein, nucleic acid encoding the heterologous polypeptide, a signal sequence for secretion of both the DsbA or DsbC protein and the heterologous polypeptide, and an inducible promoter for both the nucleic acid encoding the DsbA or DsbC protein and the nucleic acid encoding the heterologous polypeptide, under conditions whereby **expression** of the nucleic acid encoding the DsbA or DsbC protein is induced prior to induction of the **expression** of the nucleic acid encoding the heterologous polypeptide, and under conditions whereby either both the heterologous polypeptide and the DsbA or DsbC protein are secreted into the periplasm of the bacteria or the heterologous polypeptide is secreted into the medium in which the bacterial cells are cultured; and
(b) recovering the heterologous polypeptide from the periplasm or the culture medium.

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S1      1407  AU="ISHII S"
S2       255  AU="ISHII, S" OR AU="ISHII, S."
S3       137  AU="ISHII, SHUKICHI" OR AU="ISHII, SHUNSUKE" OR AU="ISHII,
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        SHUNSUKE, ISHII"
? e au=ishii s


Ref   Items  Index-term
E1       34  AU=ISHII O
E2      230  AU=ISHII R
E3     1407 *AU=ISHII S
E4        2  AU=ISHII S I
E5       71  AU=ISHII S-I
E6     2097  AU=ISHII T
E7        7  AU=ISHII T K
E8        3  AU=ISHII T M
E9        4  AU=ISHII TK
E10       2  AU=ISHII TM
E11       1  AU=ISHII U
E12       1  AU=ISHII V

       Enter P or PAGE for more
? s e4 or e5

          2  AU=ISHII S I
         71  AU=ISHII S-I
    S4    73  AU="ISHII S I" OR AU="ISHII S-I"
? e au=ishii, s


Ref   Items  Index-term
E1       11  AU=ISHII, RYUJI
E2        4  AU=ISHII, RYUTARO
E3        2 *AU=ISHII, S
E4      253  AU=ISHII, S.
E5        2  AU=ISHII, S. I.
E6        1  AU=ISHII, S.-I.
E7       11  AU=ISHII, SABURO
E8        1  AU=ISHII, SACHIHIRO
E9        5  AU=ISHII, SACHIKO
E10       1  AU=ISHII, SACHIOMI
E11       1  AU=ISHII, SADAJI
E12       1  AU=ISHII, SADAKO

       Enter P or PAGE for more
? s e5 or e6

          2  AU=ISHII, S. I.
          1  AU=ISHII, S.-I.
    S5    3  AU="ISHII, S. I." OR AU="ISHII, S.-I."
? ds


Set    Items  Description
S1      1407  AU="ISHII S"
S2       255  AU="ISHII, S" OR AU="ISHII, S."
S3       137  AU="ISHII, SHUKICHI" OR AU="ISHII, SHUNSUKE" OR AU="ISHII,
         SHUNSUKE, ISHII"
S4        73  AU="ISHII S I" OR AU="ISHII S-I"
S5         3  AU="ISHII, S. I." OR AU="ISHII, S.-I."
? s s1:s5

    S6  1874  S1:S5
? s thioredoxin

    S7  4055  THIOREDOXIN
? s s6 and s7

        1874  S6
        4055  S7
    S8     5  S6 AND S7
```

? d s8/7/1-5

Display 8/7/1 (Item 1 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

11968767 BIOSIS Number: 98568767
Increase of Solubility of Foreign Proteins in Escherichia coli by Coproduction of the Bacterial %%%Thioredoxin%%%
Yasukawa T; Kanei-Ishii C; Maekawa T; Fujimoto J; Yamamoto T; %%%Ishii%%%%%%S%%%
Lab. Mol. Genet., Inst. Phys. Chem. Res., 3-1-1 Koyadai, Tsukuba, Ibaraki 305, Japan
Journal of Biological Chemistry 270 (43). 1995. 25328-25331.
Full Journal Title: Journal of Biological Chemistry
ISSN: 0021-9258
Language: ENGLISH
Print Number: Biological Abstracts Vol. 101 Iss. 001 Ref. 011572
Eukaryotic proteins are frequently produced in Escherichia coli as insoluble aggregates. This is one of the barriers to studies of macromolecular structure. We have examined the effect of coproduction of the E. coli %%%thioredoxin%%% (Trx) or E. coli chaperones GroESL on the

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Display 8/7/1 (Item 1 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.
solubility of various foreign proteins. The solubilities of all eight vertebrate proteins examined including transcription factors and kinases were increased dramatically by coproduction of Trx. Overproduction of E. coli chaperones GroESL increased the solubilities of four out of eight proteins examined. Although the tyrosine kinase Lck that was produced as an insoluble form and solubilized by urea treatment had a very low autophosphorylating activity, Lck produced in soluble form by coproduction of Trx had an efficient activity. These results suggest that the proteins produced in soluble form by coproduction of Trx have the native protein conformation. The mechanism by which coproduction of Trx increases the solubility of the foreign proteins is discussed.

- end of record -

?

Display 8/7/2 (Item 1 from file: 154)
DIALOG(R)File 154:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

08457795 96029605
Increase of solubility of foreign proteins in Escherichia coli by coproduction of the bacterial %%%thioredoxin%%%.
Yasukawa T; Kanei-Ishii C; Maekawa T; Fujimoto J; Yamamoto T; %%%Ishii%%%%%%S%%%
Laboratory of Molecular Genetics, Institute of Physical and Chemical Research (RIKEN), Ibaraki, Japan.
J Biol Chem (UNITED STATES) Oct 27 1995, 270 (43) p25328-31, ISSN 0021-9258 Journal Code: HIV
Languages: ENGLISH
Document type: JOURNAL ARTICLE
Eukaryotic proteins are frequently produced in Escherichia coli as insoluble aggregates. This is one of the barriers to studies of macromolecular structure. We have examined the effect of coproduction of the E. coli %%%thioredoxin%%% (Trx) or E. coli chaperones GroESL on the solubility of various foreign proteins. The solubilities of all eight

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Display 8/7/2 (Item 1 from file: 154)
DIALOG(R)File 154:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.
vertebrate proteins examined including transcription factors and kinases were increased dramatically by coproduction of Trx. Overproduction of E. coli chaperones GroESL increased the solubilities of four out of eight proteins examined. Although the tyrosine kinase Lck that was produced as an insoluble form and solubilized by urea treatment had a very low autophosphorylating activity, Lck produced in soluble form by coproduction of Trx had an efficient activity. These results suggest that the proteins produced in soluble form by coproduction of Trx have the native protein conformation. The mechanism by which coproduction of Trx increases the solubility of the foreign proteins is discussed.

- end of record -

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Display 8/7/3 (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.

011236915 **Image available**
WPI Acc No: 97-214818/199720
Bacterium producing eukaryotic proteins in soluble form - by expression of protein-encoding and %%%thioredoxin%%% genes
Patent Assignee: HSP RES INST INC (HSPR-N); INST PHYSICAL & CHEM RES (RIKA); HSP KENKYUSHO KK (HSPK-N); RIKAGAKU KENKYUSHO (RIKA)
Inventor: %%%ISHII S%%%; YURA T
Number of Countries: 008 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 768382	A2	19970416	EP 96116359	A	19961011		199720 B
JP 9107954	A	19970428	JP 95291859	A	19951013		199727
CA 2187250	A	19970414	CA 2187250	A	19961007		199733

Priority Applications (No Type Date): JP 95291859 A 19951013
Cited Patents: No-SR.Pub

-more-

? d s8/7/4-5

Display 8/7/4 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

126273257 CA: 126(21)273257f PATENT
Method for producing a soluble protein with bacteria by co-expressing a thioredoxin
INVENTOR(AUTHOR): Ishii, Shunsuke; Yura, Takashi
LOCATION: Japan,
ASSIGNEE: Hsp Research Institute, Inc.; Institute of Physical and Chemical Research
PATENT: European Pat. Appl. ; EP 768382 A2 DATE: 19970416
APPLICATION: EP 96116359 (19961011) *JP 95291859 (19951013)
PAGES: 15 pp. CODEN: EPXXDW LANGUAGE: English CLASS: C12N-015/53A; C12N-001/21B; C07K-014/82 DESIGNATED COUNTRIES: CH; DE; FR; GB; IT; LI
SECTION:
CA203002 Biochemical Genetics
IDENTIFIERS: bacteria recombinant sol protein manuf thioredoxin, Escherichia recombinant protein manuf thioredoxin
DESCRIPTORS:

1070
1804

-more-

? d s8/7/5

Display 8/7/5 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

123310190 CA: 123(23)310190q JOURNAL
Increase of solubility of foreign proteins in Escherichia coli by coproduction of the bacterial thioredoxin
AUTHOR(S): Yasukawa, Takashi; Kanei-Ishii, Chie; Maekawa, toshio; Fujimoto, Jiro; Yamamoto, Tadashi; Ishii, Shunsuke
LOCATION: Lab. Mol. Genet., Inst. Phys. Chem. Res., Tsukuba, Japan, 305
JOURNAL: J. Biol. Chem. DATE: 1995 VOLUME: 270 NUMBER: 43 PAGES: 25328-31 CODEN: JBCHA3 ISSN: 0021-9258 LANGUAGE: English
SECTION:
CA210006 MICROBIAL, ALGAL, AND FUNGAL BIOCHEMISTRY
IDENTIFIERS: thioredoxin Escherichia protein soly
DESCRIPTORS:
Proteins,biological studies...
GroE; increase in soly. of foreign proteins in Escherichia coli by coprodn. of chaperones
Proteins,biological studies...

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Set	Items	Description
S1	1407	AU="ISHII S"
S2	255	AU="ISHII, S" OR AU="ISHII, S."
S3	137	AU="ISHII, SHUKICHI" OR AU="ISHII, SHUNSUKE" OR AU="ISHII, SHUNSUKE, ISHII"
S4	73	AU="ISHII S I" OR AU="ISHII S-I"
S5	3	AU="ISHII, S. I." OR AU="ISHII, S.-I."
S6	1874	S1:S5
S7	4055	THIOREDOXIN
S8	5	S6 AND S7

? s coli

S9 348118 COLI
? s s7 and s9

4055 S7
348118 S9
S10 1439 S7 AND S9
? s plasmid

S11 126226 PLASMID
? s s10 and s11

1439 S10
126226 S11
S12 81 S10 AND S11
? s transform?

S13 546294 TRANSFORM?
? s s12 and s13

81 S12
546294 S13
S14 27 S12 AND S13
? rd

> > > Duplicate detection is not supported for File 351.

> > > Records from unsupported files will be retained in the RD set.
...completed examining records
S15 19 RD (unique items)
? d s15/3/1-19

Display 15/3/1 (Item 1 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

13821369 BIOSIS Number: 99821369
Bacterial and mammalian DNA alkyltransferases sensitize Escherichia %%%coli%%% to the lethal and mutagenic effects of dibromoalkanes
Abril N; Luque-Romero F L; Prieto-Alamo M-J; Rafferty J A; Marigison G P; Pueyo C
Dep. de Bioquimica y Biologia Molecular, Universidad de Cordoba, 14071-Cordoba, Spain
Carcinogenesis (Oxford) 18 (10). 1997. 1883-1888.
Full Journal Title: Carcinogenesis (Oxford)
ISSN: 0143-3334
Language: ENGLISH
Print Number: Biological Abstracts Vol. 104 Iss. 012 Ref. 178973

- end of record -

?

Display 15/3/2 (Item 2 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

11765638 BIOSIS Number: 98365638
A procedure for the generation and the purification of Escherichia %%%coli%%% thioredoxins with variable N-terminal sequences
Mora-Garcia S; Hagelin K; Wolosiuk R A
Inst. Investigaciones Bioquim., Antonio Machado 151, 1405 Buenos Aires, Argentina
Protein Expression and Purification 6 (3). 1995. 213-219.
Full Journal Title: Protein Expression and Purification
ISSN: 1046-5928
Language: ENGLISH
Print Number: Biological Abstracts Vol. 100 Iss. 004 Ref. 057476

- end of record -

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Display 15/3/3 (Item 3 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

10004549 BIOSIS Number: 95004549
BIOSYNTHESIS OF ACTIVE SPINACH-CHLOROPLAST %%%THIOREDOXIN%%% F IN %%%TRANSFORMED%%% ESCHERICHIA-%%%COLI%%%
AGUILAR F; BRUNNER B; GARDET-SALVI L; STUTZ E; SCHURMANN P
LAB. DE BIOCHIMIE VEGETALE, UNIVERSITE DE NEUCHATEL, CH-2000 NEUCHATEL, SWITZERLAND.
PLANT MOL BIOL 20 (2). 1992. 301-306. CODEN: PMBID
Full Journal Title: Plant Molecular Biology
Language: ENGLISH

- end of record -

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Display 15/3/4 (Item 4 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

7711649 BIOSIS Number: 90079649
PURIFICATION AND CHARACTERIZATION OF %%%PLASMID%%%-ENCODED %%%THIOREDOXIN%%% FROM ESCHERICHIA-%%%COLI%%% LE392 %%%TRANSFORMANTS%%%
CHO M-H; HAHN T-R
DEP. GENETICS, KYUNG HEE UNIV., SUWON 449-900, KOREA.
KOREAN BIOCHEM J 23 (1). 1990. 5-10. CODEN: KBCJA
Full Journal Title: Korean Biochemical Journal
Language: ENGLISH

- end of record -

?

Display 15/3/5 (Item 5 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

7452911 BIOSIS Number: 89103930
CLONING NUCLEOTIDE SEQUENCE AND EXPRESSION OF THE RHODOBACTER-SPHAEROIDES Y %%%THIOREDOXIN%%% GENE
PILLE S; CHUAT J-C; BRETON A M; CLEMENT-METRAL J D; GALIBERT F
GROUPE DE CONCEPTION MOLECULAIRE, LABORATOIRE DE TECHNOLOGIE ENZYMATIQUE, BP649, 60206 COMPIEGNE CEDEX, FRANCE.
J BACTERIOL 172 (3). 1990. 1556-1561. CODEN: JOBAA
Full Journal Title: Journal of Bacteriology
Language: ENGLISH

- end of record -

?

Display 15/3/6 (Item 6 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

7058592 BIOSIS Number: 87119113
PURIFICATION CHARACTERIZATION AND REVISED AMINO ACID SEQUENCE OF A SECOND %%%THIOREDOXIN%%% FROM CORYNEBACTERIUM-NEPHRIDII
MCFARLAN S C; HOGENKAMP H P C; ECCLESTON E D; HOWARD J B; FUCHS J A
DEP. BIOCEHM., 4-233 MILLARD HALL, 435 DELAWARE ST., S.E., MINNEAPOLIS, MINN. 55455.
EUR J BIOCHEM 179 (2). 1989. 389-398. CODEN: EJBCA
Full Journal Title: European Journal of Biochemistry
Language: ENGLISH

- end of record -

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Display 15/3/7 (Item 7 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

7043083 BIOSIS Number: 87103604
INCORPORATION OF FOREIGN GENE WITH TI %%%PLASMID%%% VECTOR SYSTEM II. EXPRESSION OF ESCHERICHIA-%%%COLI%%% %%%THIOREDOXIN%%% GENE IN CULTURED TOBACCO CELLS
LEE H B; JOO C N; HONG S J; KIM S W; LIM C J; KIM Y M
DEP. BIOCHEMISTRY, COLL. NATURAL SCI., KANGWEON NATL. UNIV., CHUNCHEON 200-701, KOREA.
KOREAN BIOCHEM J 21 (4). 1988. 384-388. CODEN: KBCJA
Full Journal Title: Korean Biochemical Journal
Language: ENGLISH

- end of record -

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Display 15/3/8 (Item 8 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

7042553 BIOSIS Number: 87103074
INCORPORATION OF FOREIGN GENE WITH TI %%%PLASMID%%% VECTOR SYSTEM I. INTRODUCTION OF ESCHERICHIA-%%%COLI%%% %%%THIOREDOXIN%%% GENE INTO AGROBACTERIUM-TUMEFACIENS
LEE H B; JOO C N; HONG S J; KIM S W; LIM C J; KIM Y M
DEP. BIOCHEMISTRY, COLL. NATURAL SCIENCES, KANGWEON NATL. UNIV., CHUNCHEON 200-701, KOREA.
KOREAN BIOCHEM J 21 (4). 1988. 378-383. CODEN: KBCJA
Full Journal Title: Korean Biochemical Journal
Language: ENGLISH

- end of record -

?

Display 15/3/9 (Item 9 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

5985772 BIOSIS Number: 84118337
CLONING EXPRESSION AND NUCLEOTIDE SEQUENCE OF A GENE ENCODING A SECOND %%%THIOREDOXIN%%% FROM CORYNEBACTERIUM-NEPHRIDII
LIM C-J; FUCHS J A; MCFARLAN S C; HOGENKMAP H P C
DEP. BIOCHEM., UNIV. MINNESOTA, ST. PAUL, MINNESOTA 55108.
J BIOL CHEM 262 (25). 1987. 12114-12119. CODEN: JBCHA
Full Journal Title: Journal of Biological Chemistry
Language: ENGLISH

- end of record -

?

Display 15/3/10 (Item 10 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

5275190 BIOSIS Number: 81042497
BACTERIOPHAGE T-7 DNA POLYMERASE CLONING AND HIGH-LEVEL EXPRESSION
REUTIMANN H; SJOBERG B-M; HOLMGREN A
DEP. PHYSIOLOGICAL CHEMISTRY, KAROLINSKA INST., BOX 60400, S-104 01 STOCKHOLM, SWEDEN.
PROC NATL ACAD SCI U S A 82 (20). 1985. 6783-6787. CODEN: PNASA
Full Journal Title: Proceedings of the National Academy of Sciences of the United States of America
Language: ENGLISH

- end of record -

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Display 15/3/11 (Item 11 from file: 55)
DIALOG(R)File 55:BIOSIS PREVIEWS(R)
(c) 1998 BIOSIS. All rts. reserv.

4819877 BIOSIS Number: 79062192
MUTATIONALLY ALTERED RIBONUCLEOTIDE REDUCTASE FROM ESCHERICHIA-%%%COLI%%% CHARACTERIZATION OF MUTATIONS ISOLATED ON MULTICOPY PLASMIDS
PLATZ A; SJOBERG B-M
DEPARTMENT MOLECULAR BIOLOGY, SWEDISH UNIVERSITY AGRICULTURAL SCIENCES, S-75124 UPPSALA, SWEDEN.
J BACTERIOL 160 (3). 1984. 1010-1016. CODEN: JOBAA
Full Journal Title: Journal of Bacteriology
Language: ENGLISH

- end of record -

?

Display 15/3/12 (Item 1 from file: 154)
DIALOG(R)File 154:MEDLINE(R)
(c) format only 1998 Dialog Corporation. All rts. reserv.

07168161 93004482
Biosynthesis of active spinach-chloroplast %%%thioredoxin%%% f in %%%transformed%%% E. %%%coli%%%.
Aguilar F; Brunner B; Gardet-Salvi L; Stutz E; Schurmann P
Laboratoire de Biochimie vegetale, Universite de Neuchatel, Switzerland.
Plant Mol Biol (NETHERLANDS) Oct 1992, 20 (2) p301-6, ISSN 0167-4412
Journal Code: A6O
Languages: ENGLISH
Document type: JOURNAL ARTICLE

- end of record -

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Display 15/3/13 (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.

009768936
WPI Acc No: 94-048787/199406
Related WPI Acc No: 92-300041; 95-224326
XRAM Acc No: C94-022075
Recombinant prodn. of heterologous proteins - by expression as fusion proteins with a %%%thioredoxin%%%-like protein for high stability and solubility
Patent Assignee: GENETICS INST INC (GEMY)
Inventor: LAVALLIE E R; MCCOY J
Number of Countries: 020 Number of Patents: 003
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
WO 9402502 A1 19940203 WO 93US6913 A 19930723 C07H-021/04 199406 B
US 5292646 A 19940308 US 91652531 A 19910206 C12N-001/00 199410
US 91745382 A 19910814
US 92921848 A 19920728

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Display 15/3/13 (Item 1 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.
AU 9347814 A 19940214 AU 9347814 A 19930723 199425
WO 93US6913 A 19930723

Priority Applications (No Type Date): US 92921848 A 19920728; US 91652531 A 19910206; US 91745382 A 19910814
Filing Details:
Patent Kind Filing Notes Application Patent
WO 9402502 A1
Designated States (National): AU CA JP
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
US 5292646 A CIP of US 91652531
CIP of US 91745382
AU 9347814 A Based on WO 9402502
Language, Pages: WO 9402502 (E, 53); US 5292646 (38)

- end of record -

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Display 15/3/14 (Item 2 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.

009172607
WPI Acc No: 92-300041/199236
Related WPI Acc No: 94-048787; 95-224326
XRAM Acc No: C92-133864
DNA sequence encoding a fusion protein - comprises %%%thioredoxin%%% and a heterologous protein sequence; used to produce stable soluble proteins e.g. IL-11
Patent Assignee: GENETICS INST INC (GEMY)
Inventor: LAVALLIE E R; MCCOY J
Number of Countries: 019 Number of Patents: 007
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
WO 9213955 A1 19920820 WO 92US944 A 19920206 B 199236 B
AU 9214671 A 19920907 AU 9214671 A 19920206 B 199249
WO 92US944 A 19920206
JP 5507209 W 19931021 JP 92507259 A 19920206 B 199347

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Display 15/3/14 (Item 2 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.
WO 92US944 A 19920206
US 5270181 A 19931214 US 91652531 A 19910206 B 199350
US 91745382 A 19910814
EP 574506 A1 19931222 EP 92907803 A 19920206 B 199351
WO 92US944 A 19920206
AU 663489 B 19951012 AU 9214671 A 19920206 B 199548
JP 2513978 B2 19960710 JP 92507259 A 19920206 B 199632
WO 92US944 A 19920206

Priority Applications (No Type Date): US 91745382 A 19910814; US 91652531 A 19910206
Filing Details:
Patent Kind Filing Notes Application Patent
WO 9213955 A1
Designated States (National): AU CA JP
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LU MC NL SE
AU 9214671 A Based on WO 9213955

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Display 15/3/14 (Item 2 from file: 351)
DIALOG(R)File 351:DERWENT WPI
(c)1998 Derwent Info Ltd. All rts. reserv.
JP 5507209 W Based on WO 9213955
US 5270181 A CIP of US 91652531
EP 574506 A1 Based on WO 9213955
Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU MC NL SE
AU 663489 B Previous Publ. AU 9214671
Based on WO 9213955
JP 2513978 B2 Previous Publ. JP 5507209
Based on WO 9213955
Language, Pages: WO 9213955 (E, 53); JP 5507209 (15); US 5270181 (35); EP 574506 (E); JP 2513978 (24)

- end of record -

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Display 15/3/15 (Item 1 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

127134569 CA: 127(10)134569s JOURNAL
Expression of properly folded human glutamate decarboxylase 65 as a fusion protein in Escherichia coli
AUTHOR(S): Papouchado, Mariana L.; Valdez, Silvina N.; Ghiringhelli, Daniel; Poskus, Edgardo; Ermacora, Mario R.
LOCATION: Catedra Immunologia, Facultad Farmacia Bioquimica, Universidad Buenos Aires, Buenos Aires, Argent.
JOURNAL: Eur. J. Biochem. DATE: 1997 VOLUME: 246 NUMBER: 2 PAGES: 350-359 CODEN: EJBCAI ISSN: 0014-2956 LANGUAGE: English PUBLISHER: Springer

- end of record -

?

Display 15/3/16 (Item 2 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

113037504 CA: 113(5)37504v JOURNAL
Purification and characterization of plasmid-encoded thioredoxin from E.

coli LE392 transformants
AUTHOR(S): Cho, Man Ho; Hahn, Tae Ryong
LOCATION: Dep. Genet., Kyung Hee Univ., Suwon, 449-900, S. Korea
JOURNAL: Han'guk Saenghwa Hakhoechi DATE: 1990 VOLUME: 23 NUMBER: 1
PAGES: 5-10 CODEN: KBCJAK ISSN: 0368-4881 LANGUAGE: English

- end of record -
?

Display 15/3/17 (Item 3 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

110187234 CA: 110(21)187234j JOURNAL
Incorporation of foreign gene with Ti (tumor-inducing) plasmid vector system. (II). Expression of E. coli thioredoxin gene in cultured tobacco cells
AUTHOR(S): Lee, Hee Bong; Joo, Chung No; Hong, Soon Joo; Kim, Seong Wan; Lim, Chang Jin; Kim, Young Myeong
LOCATION: Coll. Natl. Sci., Kangweon Natl. Univ., Chuncheon, 200-701, S. Korea
JOURNAL: Han'guk Saenghwa Hakhoechi DATE: 1988 VOLUME: 21 NUMBER: 4
PAGES: 384-8 CODEN: KBCJAK ISSN: 0368-4881 LANGUAGE: English

- end of record -
?

Display 15/3/18 (Item 4 from file: 399)
DIALOG(R)File 399:CA SEARCH(R)
(c) 1998 American Chemical Society. All rts. reserv.

110187233 CA: 110(21)187233h JOURNAL
Incorporation of foreign gene with Ti (tumor-inducing) plasmid vector system. (I). Introduction of E. coli thioredoxin gene into A. tumefaciens
AUTHOR(S): Lee, Hee Bong; Joo, Chung No; Hong, Soon Joo; Kim, Seong Wan; Lim, Chang Jin; Kim, Young Myeong
LOCATION: Coll. Nat. Sci., Kangweon Natl. Univ., Chuncheon, 200-701, S. Korea
JOURNAL: Han'guk Saenghwa Hakhoechi DATE: 1988 VOLUME: 21 NUMBER: 4
PAGES: 378-83 CODEN: KBCJAK ISSN: 0368-4881 LANGUAGE: English

- end of record -
?

Display 15/3/19 (Item 1 from file: 50)
DIALOG(R)File 50:CAB Abstracts
(c) 1998 CAB International. All rts. reserv.

03192605 CAB Accession Number: 961602905
High level expression in Escherichia %%%coli%%% , purification and properties of chloroplast fructose-1,6-bisphosphatase from rapeseed (Brassica napus) leaves.
Rodriguez-Suarez, R. J.; Wolosiuk, R. A.
Instituto de Investigaciones Bioquimicas (Fundacion Campomar, IIBA-CONICET, FCEN-UBA), Antonio Machado 151, (1405) Buenos Aires, Argentina.
Photosynthesis Research vol. 46 (1/2): p.313-322
Publication Year: 1995
ISSN: 0166-8595
Language: English
Document Type: Journal article

- end of display -
? ds

Set Items Description
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S3       137  AU="ISHII, SHUKICHI" OR AU="ISHII, SHUNSUKE" OR AU="ISHII,
          SHUNSUKE, ISHII"
S4        73  AU="ISHII S I" OR AU="ISHII S-I"
S5         3  AU="ISHII, S. I." OR AU="ISHII, S.-I."
S6      1874  S1:S5
S7      4055  THIOREDOXIN
S8         5  S6 AND S7
S9    348118  COLI
S10     1439  S7 AND S9
S11   126226  PLASMID
S12       81  S10 AND S11
S13   546294  TRANSFORM?
S14       27  S12 AND S13
S15       19  RD (unique items)
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        $1.45  1 Type(s) in Format  7
       $17.40  12 Types
  $21.18  Estimated cost File55
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          $0.20  1 Type(s) in Format  7
        $0.40  2 Types
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        $9.40  3 Types
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          $4.50  2 Type(s) in Format  7
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  $58.41  Estimated total session cost   0.181 Hrs.
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box200> enter system id

Logging in to Dialog

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PLEASE LOGON:
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IALOG Invalid account number

DIALOG INFORMATION SERVICES
PLEASE LOGON:
****
ENTER PASSWORD:
a80093fe
****
Welcome to DIALOG

Dialog level 97.10.03D

Last logoff: 27oct97 08:17:47
Logon file405 29oct97 13:23:51
ANNOUNCEMENT **** ANNOUNCEMENT **** ANNOUNCEMENT

***New: PIERS Exports (Mexico) (File 572)
***New: PIERS Imports (Mexico) (File 574)
***New: Yellow Books Leadership Directories (Files 81, 82 and 235)
***New: TV and Radio Transcripts (File 648)
***New: Fuji-Keizai Market Research (File 508)
***New: World Reporter (File 20)
***New: Thomson/Polk Banking Database (File 324)
***
Reloaded: Textile Technology Digest (File 119)
***Reloaded: Aquatic Sciences and Fisheries Abstracts (ASFA) (File 44)
***Reloaded and Enhanced: Ulrich's Int'l Per. Dir. (File 480)
***
***Removed: Buyer's Guide to Micro Software (SOFT)(File 237)
***
***New KR OnDisc(TM): UK Business Elite on CD-ROM
***New KR OnDisc(TM): Business & Industry (Archive Disk) on CD-ROM
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***World Reporter, File 20. Up to $150 free usage in October
(this includes connect time and output)
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on our Website (krinfo.com)
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> > > Enter BEGIN HOMEBASE for Dialog Announcements < < <
> > > of new databases, price changes, etc. < < <
> > > Announcements last updated 15Oct97 < < <
SYSTEM:HOME
Menu System II: D2 version 1.7.8 term=ASCII
*** DIALOG HOMEBASE(SM) Main Menu ***
Information:
1. . Announcements (new files, free connect time, price changes, etc.)
2. Database, Rates, & Command Descriptions

3. Help in Choosing Databases for Your Topic
4. Customer Services (telephone assistance, training, seminars, etc.)
5. Product Descriptions

Connections:
6. DIALOG Menus(SM)
7. DIALOG Business Connection(R) and DIALOG Headlines(SM)
8. DIALOG(R) Document Delivery
9. Data Star(R)
10. Other Online Menu Services & Files (MoneyCenter(R), OAG, TNT, etc.)

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/H = Help /L = Logoff /NOMENU = Command Mode

Enter an option number to view information or to connect to an online service. Enter a BEGIN command plus a file number to search a database (e.g., B1 for ERIC).
? b 410

29oct97 13:24:01 User214369 Session D289.1
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$0.00 Estimated cost FileHomeBase
$0.00 Estimated cost this search
$0.00 Estimated total session cost 0.002 Hrs.

File 410:Chronolog(R) 1981-1997/Oct
(c) 1997 Knight-Ridder Info

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File 582:Augusta Chronicle 1996- 1997/Oct 28
(c) 1997 Augusta Chronicle

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$0.50 Estimated total session cost 0.017 Hrs.

File 351:DERWENT WPI 1963-1997/UD=9742;UP=9739;UM=9737
(c)1997 Derwent Info Ltd
*File 351: See HELP NEWS FAQ 351 for reload information.
British applications now updated faster-See HELP NEWS 351

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    S1 3491593  AC=JP  (Japan)
? s an=291859

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? s s1 and s6

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         2940  S6
    S7    1978  S1 AND S6
? s thioredoxin

    S8      44  THIOREDOXIN
? s s8 and s7

           44  S8
         1978  S7
    S9       1  S8 AND S7
? d s9/7/1

    Display 9/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

011236915  **Image available**
WPI Acc No: 97-214818/199720
 Bacterium producing eukaryotic proteins in soluble form - by expression
 of protein-encoding and %%%thioredoxin%%% genes
Patent Assignee: HSP RES INST INC (HSPR-N); INST PHYSICAL & CHEM RES (RIKA
 ); HSP KENKYUSHO KK (HSPK-N); RIKAGAKU KENKYUSHO (RIKA )
Inventor: ISHII S; YURA T
Number of Countries: 008  Number of Patents: 003
Patent Family:
Patent No  Kind  Date   Applicat No Kind  Date   Main IPC     Week
EP 768382  A2 19970416 EP 96116359  A  19961011              199720 B
JP 9107954  A  19970428 JP 95291859  A  19951013             199727
CA 2187250  A  19970414 CA 2187250  A  19961007              199733

Priority Applications (No Type Date): JP 95291859 A 19951013
Cited Patents: No search report pub.

                          -more-
?

    Display 9/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
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Patent Details:
Patent Kind Lan Pg Filing Notes Application Patent
EP 768382 A2 E 15
Designated States (Regional): CH DE FR GB IT LI
JP 9107954 A 13

Abstract (Basic): EP 768382 A

Bacterium either co-transformed with both an expression vector for a %%%thioredoxin%%% gene and an expression vector for a desired gene, or transformed with a vector for a %%%thioredoxin%%% gene and a desired gene, the 2 genes being expressed as 2 separate proteins, is new. Also claimed is a method for producing a soluble protein, which comprises cultivating a bacterium as above and recovering the protein in soluble form.

USE - The bacterium can be used for the prodn. of proteins in soluble form, esp. interferons, interleukins, interleukin receptors, interleukin receptor antagonists, granulocyte colony-stimulating factor

-more-

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Display 9/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

(CSF), granulocyte macrophage CSF, macrophage CSF, erythropoietin, thrombopoietin, leukaemia inhibitory factor, stem cell factor, tumour necrosis factor, growth hormones, proinsulin, insulin-like growth factors (GFs), fibroblast GF, platelet-derived GF, transforming GFs, hepatocyte GF, bone morphogenetic proteins, nerve GF, ciliary neurotrophic factor (NF), brain-derived NF, glial cell line-derived NF, neurotrophin-3, urokinase, tissue plasminogen activator, blood coagulation factors, protein C, gluco-cerebrosidase, SOD, renin, lysozyme, P450, prochymosin, trypsin inhibitor, elastase inhibitor, lipocortin, immunoglobulins, single-chain antibody fragments, complement components, serum albumin, virus-constituting proteins, proto-oncogene prods. and transcription factors (claimed).

ADVANTAGE - Eukaryotic proteins that are normally expressed in insol. form can be expressed in soluble form, with the native conformation, by co-expression with %%%thioredoxin%%%.

Dwg.2/5
Derwent Class: B04; D16

-more-

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Display 9/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
International Patent Class (Main): C12N-001/21; C12N-015/53
International Patent Class (Additional): C07H-021/04; C07K-014/82; C12N-015/09; C12N-015/11; C12N-015/70; C12P-021/02; C12N-001/21; C12R-001-19

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S4	0	AN=7 291859

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S7      1978  S1 AND S6
S8        44  THIOREDOXIN
S9         1  S8 AND S7
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       55435  BACTERI?
   S10 55435  S COLI OR BACTERI?
? s s8 and s10

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       55435  S10
   S11    11  S8 AND S10
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     Display 11/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

011356998
WPI Acc No: 97-334905/199731
  Fused DNA encoding heat-resistant protein and protein of interest -
  simplifies purification and increases quantity of desired protein, also
  useful as antigen without giving non-specific reaction
Patent Assignee: FUJI REBIO INC (FJRE )
Inventor: FUJII N; OKADA M; UENO E
Number of Countries: 019  Number of Patents: 002
Patent Family:
Patent No  Kind  Date   Applicat No Kind  Date   Main IPC      Week
EP 781848  A2 19970702 EP 96120899  A  19961227              199731 B
AU 9676499  A  19970703 AU 9676499  A  19961224              199735

Priority Applications (No Type Date): JP 95352225 A 19951228
Patent Details:
Patent   Kind Lan Pg Filing Notes     Application  Patent

                          -more-
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     Display 11/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
EP 781848  A2 E  44
  Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU
  MC NL PT SE

Abstract (Basic): EP 781848 A
      A new fused DNA sequence (I), comprises a DNA sequence of a
   heat-resistant protein fused directly or indirectly to a DNA sequence
   encoding a selected protein or peptide. Also claimed is a fused protein
   (A) expressed from (I).
      USE - The invention is particularly useful when, using its
   conventional DNA, a necessary expression amount of a selected desired
   protein or peptide is difficult to be purified. (A) can also be used as
   an antigen in an immunoreaction.
      ADVANTAGE - (A) is highly soluble and heat resistant, thus enabling
   the easy removal of unnecessary substances by heat treatment during its
   purification, resulting in protein levels that can be several hundred
   times higher than other methods. The heat resistant protein used in (A)
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Display 11/7/1
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
is derived from a thermophilic %%%bacterium%%% which cannot live in living bodies of mammals, hence the fused protein can be used as an antigen without resulting in a non-specific reaction, such as occur with the widely used glutathione-S-transferase and %%%thioredoxin%%% proteins derived from Escherichia coli and Schistosoma japonicum.
Dwg.0/12
Derwent Class: B04; D16
International Patent Class (Main): C12N-015/62
International Patent Class (Additional): C07K-014/15; C07K-014/195; C07K-014/20; C07K-019/00; C12N-009/12; C12N-015/31; C12N-015/48; C12N-015/54

- end of record -

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Display 11/7/2
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

011236915 **Image available**
WPI Acc No: 97-214818/199720
%%%Bacterium%%% producing eukaryotic proteins in soluble form - by expression of protein-encoding and %%%thioredoxin%%% genes
Patent Assignee: HSP RES INST INC (HSPR-N); INST PHYSICAL & CHEM RES (RIKA); HSP KENKYUSHO KK (HSPK-N); RIKAGAKU KENKYUSHO (RIKA)
Inventor: ISHII S; YURA T
Number of Countries: 008 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 768382	A2	19970416	EP 96116359	A	19961011		199720 B
JP 9107954	A	19970428	JP 95291859	A	19951013		199727
CA 2187250	A	19970414	CA 2187250	A	19961007		199733

Priority Applications (No Type Date): JP 95291859 A 19951013
Cited Patents: No search report pub.

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Display 11/7/2
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
Patent Details:

Patent	Kind	Lan	Pg	Filing Notes	Application	Patent
EP 768382	A2	E	15			
Designated States (Regional): CH DE FR GB IT LI						
JP 9107954	A		13			

Abstract (Basic): EP 768382 A
%%%Bacterium%%% either co-transformed with both an expression vector for a %%%thioredoxin%%% gene and an expression vector for a desired gene, or transformed with a vector for a %%%thioredoxin%%% gene and a desired gene, the 2 genes being expressed as 2 separate proteins, is new. Also claimed is a method for producing a soluble protein, which comprises cultivating a %%%bacterium%%% as above and recovering the protein in soluble form.

USE - The %%%bacterium%%% can be used for the prodn. of proteins in soluble form, esp. interferons, interleukins, interleukin receptors, interleukin receptor antagonists, granulocyte colony-stimulating factor

-more-

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Display 11/7/2
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
(CSF), granulocyte macrophage CSF, macrophage CSF, erythropoietin, thrombopoietin, leukaemia inhibitory factor, stem cell factor, tumour necrosis factor, growth hormones, proinsulin, insulin-like growth factors (GFs), fibroblast GF, platelet-derived GF, transforming GFs, hepatocyte GF, bone morphogenetic proteins, nerve GF, ciliary neurotrophic factor (NF), brain-derived NF, glial cell line-derived NF, neurotrophin-3, urokinase, tissue plasminogen activator, blood coagulation factors, protein C, gluco-cerebrosidase, SOD, renin, lysozyme, P450, prochymosin, trypsin inhibitor, elastase inhibitor, lipocortin, immunoglobulins, single-chain antibody fragments, complement components, serum albumin, virus-constituting proteins, proto-oncogene prods. and transcription factors (claimed).

ADVANTAGE - Eukaryotic proteins that are normally expressed in insol. form can be expressed in soluble form, with the native conformation, by co-expression with %%%thioredoxin%%%.

Dwg.2/5
Derwent Class: B04; D16

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Display 11/7/2
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
International Patent Class (Main): C12N-001/21; C12N-015/53
International Patent Class (Additional): C07H-021/04; C07K-014/82; C12N-015/09; C12N-015/11; C12N-015/70; C12P-021/02; C12N-001/21; C12R-001-19

- end of record -

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Display 11/7/3
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

010491472
WPI Acc No: 95-392873/199550
Inhibiting or preventing microbial growth with victorin - useful for treating %%%bacterial%%%, protozoal or fungal infections in humans, animals or plants
Patent Assignee: UNIV AUSTRALIAN NAT (AUSU)
Inventor: CHEN H; LOSCHKE D C; ROLFE B G
Number of Countries: 019 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
WO 9529592	A1	19951109	WO 95AU254	A	19950427	A01N-063/04	199550 B
AU 9523406	A	19951129	AU 9523406	A	19950427	A01N-063/04	199609

Priority Applications (No Type Date): AU 945338 A 19940429
Cited Patents: AU 9345474
Patent Details:

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Display 11/7/3
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
Patent Kind Lan Pg Filing Notes Application Patent
WO 9529592 A1 E 20
Designated States (National): AU JP US
Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE
AU 9523406 A Based on WO 9529592

Abstract (Basic): WO 9529592 A

Inhibiting or preventing the growth of %%%bacteria%%%, protozoa and/or fungi involves contacting the organisms with a toxic or growth-inhibiting amt. of a cpd. (I) selected from the toxin victorin and its derivs. and analogues.

Also claimed are:(a) use of the method above for prophylactic or therapeutic treatment of a pathogenic %%%bacterial%%%, protozoal and/or fungal infections in a human, animal or plant, and(b) the use of (I) and (I)-contg. compsns. as above, as an active component in a suitable carrier medium.

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Display 11/7/3
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

USE - (I) are highly toxic to all tested %%%bacteria%%%, e.g. E.coli C600 and Agrobacterium tumefaciens C58, Erwinia carotovora, Pseudomonas andropogonis and Xanthomonas campestris and the human pathogenic %%%bacteria%%% Enterobacter aerogenes, Enterococcus casseliflavus, Mycobacterium leprae, Pseudomonas aeruginosa, Rhodococcus equi, Serratia marcescens, Shigella flexneri, Staphylococcus aureus, Streptococcus and Xanthomonas maltophilia. (I) are also toxic to some protozoa (e.g. Giardia duodenalis and the malarial parasite Plasmodium vinckei) and some fungi (e.g. Saccharomyces cerevisiae and the human pathogens Candida albicans and Cryptococcus neoformans).

ADVANTAGE - The mechanism of action of (I) (probably inhibition of %%%thioredoxin%%% activity) is different from that of conventional antibiotics, so (I) are potentially active against resistant microbial strains.

Dwg.0/0
Derwent Class: B04; D16

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Display 11/7/3
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.
International Patent Class (Main): A01N-063/04
International Patent Class (Additional): A01N-065/00; A61K-035/70; A61K-035/84; A61K-038/08

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Display 11/7/4
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

010298828
WPI Acc No: 95-200088/199526
Control of %%%cyanobacteria%%% and blue-green algal blooms - by contact with the plant toxin victorin
Patent Assignee: UNIV AUSTRALIAN NAT (AUSU)
Inventor: CHEN H; LOSCHKE D C; MCKAY I; ROLFE B G; TOMASKA L; LOSCHKE D
Number of Countries: 019 Number of Patents: 002
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
WO 9512983 A1 19950518 WO 94AU681 A 19941108 A01N-063/04 199526 B
AU 9481007 A 19950529 AU 9481007 A 19941108 A01N-063/04 199537

Priority Applications (No Type Date): AU 932277 A 19931109
Cited Patents: 3. journal ref.; WO 9400990
Patent Details:
Patent Kind Lan Pg Filing Notes Application Patent

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Display 11/7/5
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

010069715 **Image available**
WPI Acc No: 94-337428/199442
Monoclonal antibody specifically reactive with thio-redoxin - derived from %%%bacteria%%%, yeast, mammals or plants.
Patent Assignee: TOYOTA CHUO KENKYUSHO KK (TOYW)
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
JP 6261783 A 19940920 JP 9355893 A 19930316 C12P-021/08 199442 B

Priority Applications (No Type Date): JP 9355893 A 19930316
Patent Details:
Patent Kind Lan Pg Filing Notes Application Patent
JP 6261783 A 8

Abstract (Basic): JP 6261783 A

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Display 11/7/6
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

009172607
WPI Acc No: 92-300041/199236
DNA sequence encoding a fusion protein - comprises %%%thioredoxin%%% and a heterologous protein sequence; used to produce stable soluble proteins e.g. IL-11
Patent Assignee: GENETICS INST INC (GEMY)
Inventor: LAVALLIE E R; MCCOY J
Number of Countries: 019 Number of Patents: 007
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week

WO 9213955 A1 19920820 WO 92US944 A 19920206 B 199236 B
AU 9214671 A 19920907 AU 9214671 A 19920206 B 199249
WO 92US944 A 19920206
JP 5507209 W 19931021 JP 92507259 A 19920206 B 199347
WO 92US944 A 19920206
US 5270181 A 19931214 US 91652531 A 19910206 B 199350

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Display 11/7/7
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

008389890
WPI Acc No: 90-276891/199037
Modified T7-type DNA polymerase - obtd. by purifying T7 DNA polymerase so as to reduce associated exo-nuclease activity
Patent Assignee: HARVARD COLLEGE (HARD)
Inventor: RICHARDSON C C; TABOR S
Number of Countries: 013 Number of Patents: 004
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
EP 386858 A 19900912 EP 90201139 A 19871224 199037 B
EP 386858 B1 19940413 EP 87311435 A 19871224 C12N-009/12 199415
EP 90201139 A 19871224
DE 3789623 G 19940519 DE 3789623 A 19871224 C12N-009/12 199421
EP 90201139 A 19871224
ES 2063243 T3 19950101 EP 90201139 A 19871224 C12N-009/12 199508

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Display 11/7/8
DIALOG(R)File 351:DERWENT WPI
(c)1997 Derwent Info Ltd. All rts. reserv.

008122994
WPI Acc No: 90-009995/199002
New reducible quinone(s) - include substits. which promote varying amts. of leuco dye release at physiological pH, for e.g. detecting urinary tract infection
Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: MOOBERRY J B
Number of Countries: 007 Number of Patents: 003
Patent Family:
Patent No Kind Date Applicat No Kind Date Main IPC Week
EP 350254 A 19900110 EP 89306769 A 19890704 199002 B
JP 2070761 A 19900309 JP 89171311 A 19890704 199016
US 5108903 A 19920428 US 88215140 A 19880705 199220

Priority Applications (No Type Date): US 88215140 A 19880705
Cited Patents: 1. journal ref.; A3...9051; EP 131511; EP 211898; No search

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Display 11/7/9
DIALOG(R)File 351:DERWENT WPI
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008122993 **Image available**

WPI Acc No: 90-009994/199002
New reducible cpds., e.g. for detecting urinary tract infections - are quinone(s) with substituents which promote varying amts. of aniline dye release at physiological pH
Patent Assignee: EASTMAN KODAK CO (EAST)
Inventor: MOOBERRY J B
Number of Countries: 007 Number of Patents: 004
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 350253	A	19900110	EP 89306767	A	19890704		199002 B
JP 2067370	A	19900307	JP 89171310	A	19890704		199016
US 5108902	A	19920428	US 88215127	A	19880705		199220
US 5196519	A	19930323	US 88215127	A	19880705	C07C-245/06	199314
			US 91819162	A	19911204		

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Display 11/7/10
DIALOG(R)File 351:DERWENT WPI
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007480469
WPI Acc No: 88-114403/198817
Modified T7-type DNA polymerase(s) produced from cloned fragments - useful esp. for DNA nucleotide base sequencing
Patent Assignee: HARVARD COLLEGE (HARD)
Inventor: RICHARDSON C C; TABOR S
Number of Countries: 035 Number of Patents: 044
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 265293	A	19880427	EP 87311435	A	19871224		198817 B
WO 8805470	A	19880728	WO 87US3331	A	19871215		198831
AU 8810224	A	19880721				198836	
NO 8800126	A	19880808				198837	
ZA 8800045	A	19880624	ZA 8845	A	19880105		198841
FI 8800131	A	19880715				198842	
HU 46069	T	19880928				198843	

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Display 11/7/11
DIALOG(R)File 351:DERWENT WPI
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004642335
WPI Acc No: 86-145678/198623
Compsn. for waving, straightening, removing or softening hair - contg. thioglycolic acid cpd. and %%%thioredoxin%%% cpd
Patent Assignee: REPLIGEN CORP (REPK)
Inventor: PIGIET V P
Number of Countries: 012 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
EP 183506	A	19860604	EP 85308540	A	19851125		198623 B
JP 61137899	A	19860625	JP 85256839	A	19851118		198632
US 4738841	A	19880419	US 86899707	A	19860825		198818
CA 1266830	A	19900320				199016	
US 4919924	A	19900424	US 85770498	A	19850828		199021
US 4941885	A	19900717	US 89407687	A	19890914		199032 N

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Set	Items	Description
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S2	0	AN=291859
S3	0	AN=7-291859
S4	0	AN=7 291859
S5	0	AN=7291859
S6	2940	AD=951013
S7	1978	S1 AND S6
S8	44	THIOREDOXIN
S9	1	S8 AND S7
S10	55435	S COLI OR BACTERI?
S11	11	S8 AND S10

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29oct97 13:33:47 User214369 Session D289.4
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$28.80 12 Type(s) in Format 7
$28.80 12 Types
$61.50 Estimated cost File351
$61.50 Estimated cost this search
$62.00 Estimated total session cost 0.167 Hrs.
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